

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at 4th Street WHITE BEAR LAKE
 Ref.Pt.: 147.244
 data by: Alliant Engineering Inc.
 TURN MOVEMENT COUNT

File Name : 17 - TH 61 & 4th St
 Site Code : 17
 Start Date : 11/7/2012
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					4th St Westbound					TH-61 Northbound					4th St Eastbound					Int. Total	
	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds		
06:00	0	1	134	5	0	0	5	2	0	1	0	4	43	1	0	0	9	0	19	0	224	
06:15	0	0	225	13	0	0	8	2	1	0	0	8	64	1	0	0	11	2	10	0	345	
06:30	0	3	308	13	0	0	10	7	0	0	0	9	99	2	0	0	9	3	21	0	484	
06:45	0	0	346	15	0	0	10	7	0	0	0	15	104	10	0	0	7	4	43	0	561	
Total	0	4	1013	46	0	0	33	18	1	1	0	36	310	14	0	0	36	9	93	0	1614	
07:00	0	0	348	22	0	0	16	6	0	0	0	13	129	7	1	0	11	3	46	0	602	
07:15	0	0	443	18	2	0	12	5	1	0	0	35	131	8	0	0	15	10	47	0	727	
07:30	0	2	415	19	0	0	14	5	0	0	0	21	126	11	0	0	29	10	41	1	694	
07:45	0	2	312	50	0	0	7	18	0	0	0	29	126	15	0	0	18	11	29	0	617	
Total	0	4	1518	109	2	0	49	34	1	0	0	98	512	41	1	0	73	34	163	1	2640	
08:00	1	1	247	25	0	0	13	12	2	0	0	23	80	6	0	0	23	16	40	0	489	
08:15	0	1	224	23	1	0	14	7	0	0	1	18	118	7	0	0	15	13	32	0	474	
08:30	0	0	207	11	0	0	19	12	0	1	0	24	108	13	0	0	19	16	28	0	458	
08:45	0	1	206	27	0	0	20	17	0	0	0	24	96	16	1	0	24	25	29	0	486	
Total	1	3	884	86	1	0	66	48	2	1	1	89	402	42	1	0	81	70	129	0	1907	
09:00	0	0	171	17	0	0	13	15	1	0	1	26	138	17	0	0	22	10	42	0	473	
09:15	0	5	175	9	0	0	14	17	0	0	0	18	130	22	1	0	21	17	30	0	459	
***** BREAK *****																						
Total	0	5	346	26	0	0	27	32	1	0	1	44	268	39	1	0	43	27	72	0	932	
***** BREAK *****																						
10:30	0	2	132	13	0	0	24	11	1	0	1	21	150	23	1	0	28	13	19	0	439	
10:45	0	1	132	19	0	0	19	12	1	0	2	31	132	23	0	0	16	14	13	0	415	
Total	0	3	264	32	0	0	43	23	2	0	3	52	282	46	1	0	44	27	32	0	854	
11:00	0	3	107	9	1	0	26	15	2	0	1	20	139	28	0	0	19	17	23	0	410	
11:15	0	1	136	13	2	0	24	18	0	0	1	30	143	27	2	0	20	23	38	0	478	
11:30	0	2	137	15	0	0	26	16	2	0	2	39	177	29	0	0	17	20	38	0	520	
11:45	0	4	145	23	0	0	28	5	3	0	0	27	198	27	2	0	20	22	33	0	537	
Total	0	10	525	60	3	0	104	54	7	0	4	116	657	111	4	0	76	82	132	0	1945	
12:00	0	5	122	17	0	0	25	14	1	0	0	36	176	25	1	0	25	17	40	0	504	
12:15	0	8	138	14	3	0	24	14	6	0	1	31	197	20	0	0	23	13	32	0	524	
12:30	0	3	155	17	0	0	29	13	4	0	2	37	182	23	0	0	20	20	40	0	545	
12:45	0	3	126	20	1	0	24	13	2	0	1	36	178	22	3	0	15	17	30	0	491	
Total	0	19	541	68	4	0	102	54	13	0	4	140	733	90	4	0	83	67	142	0	2064	
13:00	0	0	113	14	0	0	24	12	3	0	2	39	157	13	3	0	17	17	33	0	447	
13:15	0	2	158	18	1	0	25	16	1	0	1	26	169	18	0	0	22	13	27	0	497	
***** BREAK *****																						
Total	0	2	271	32	1	0	49	28	4	0	3	65	326	31	3	0	39	30	60	0	944	
***** BREAK *****																						
14:30	0	1	137	10	0	0	25	16	0	0	1	32	209	11	0	0	26	17	27	0	512	
14:45	0	0	134	20	1	0	15	18	5	0	0	35	305	15	3	0	34	23	25	0	633	
Total	0	1	271	30	1	0	40	34	5	0	1	67	514	26	3	0	60	40	52	0	1145	
15:00	0	5	149	12	2	0	20	20	2	1	0	36	275	22	2	0	26	10	35	0	617	
15:15	0	3	130	7	1	0	24	25	0	0	0	38	255	15	3	0	32	24	32	0	589	
15:30	0	3	165	18	1	0	27	24	2	0	0	43	304	29	4	0	28	17	35	2	702	
15:45	0	3	164	11	1	0	19	21	3	1	1	44	326	24	2	0	39	17	40	1	717	
Total	0	14	608	48	5	0	90	90	7	2	1	161	1160	90	11	0	125	68	142	3	2625	
16:00	0	2	154	24	0	0	18	16	4	0	0	41	322	22	0	0	39	22	50	0	714	

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 Site Code : 17
 Start Date : 11/7/2012
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					4th St Westbound					TH-61 Northbound					4th St Eastbound					Int. Total
	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	
16:15	0	5	155	17	2	0	22	17	5	0	0	45	336	16	2	0	45	21	31	0	719
16:30	0	1	170	23	2	0	27	25	1	0	0	34	375	16	8	0	31	30	38	0	781
16:45	0	4	203	21	0	0	14	14	1	0	0	39	357	19	3	0	37	25	47	0	784
Total	0	12	682	85	4	0	81	72	11	0	0	159	1390	73	13	0	152	98	166	0	2998
17:00	0	5	179	21	0	0	17	21	3	0	0	45	345	21	0	0	42	24	29	1	753
17:15	0	1	190	19	0	0	21	14	2	0	0	39	349	31	0	0	37	23	29	0	755
17:30	0	2	170	23	0	4	15	34	2	0	0	28	379	13	0	0	44	23	34	0	771
17:45	0	2	141	20	4	0	14	16	1	0	0	34	334	13	2	0	26	25	24	1	657
Total	0	10	680	83	4	4	67	85	8	0	0	146	1407	78	2	0	149	95	116	2	2936
18:00	0	2	147	24	0	0	17	17	2	0	0	37	328	14	1	0	32	8	45	0	674
18:15	0	3	157	10	0	0	27	16	1	0	0	48	261	14	2	0	19	13	31	0	602
Grand Total	1	92	7907	739	25	4	795	605	65	4	18	1258	8550	709	47	0	1012	668	1375	6	23880
Apprch %	0	1	90.2	8.4	0.3	0.3	54	41.1	4.4	0.3	0.2	11.9	80.8	6.7	0.4	0	33.1	21.8	44.9	0.2	
Total %	0	0.4	33.1	3.1	0.1	0	3.3	2.5	0.3	0	0.1	5.3	35.8	3	0.2	0	4.2	2.8	5.8	0	
Cars	1	89	7610	728	23	4	775	589	63	1	16	1222	8268	701	42	0	979	662	1342	6	23121
% Cars	100	96.7	96.2	98.5	92	100	97.5	97.4	96.9	25	88.9	97.1	96.7	98.9	89.4	0	96.7	99.1	97.6	100	96.8
Trucks	0	3	297	11	2	0	20	16	2	3	2	36	282	8	5	0	33	6	33	0	759
% Trucks	0	3.3	3.8	1.5	8	0	2.5	2.6	3.1	75	11.1	2.9	3.3	1.1	10.6	0	3.3	0.9	2.4	0	3.2

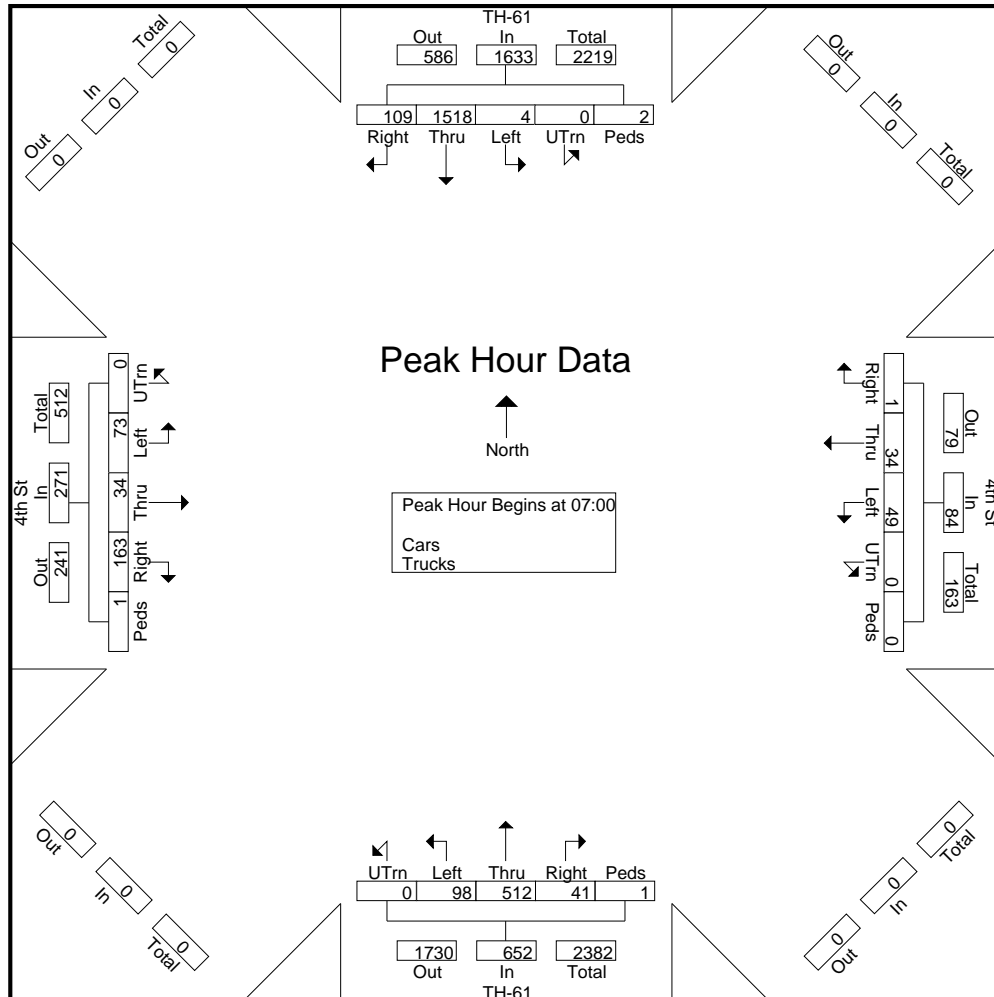
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Start Time	TH-61 Southbound					4th St Westbound					TH-61 Northbound					4th St Eastbound					Int. Total				
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left		Thru	Right	Peds	App. Total
07:00	0	0	34	22	0	370	0	16	6	0	0	22	0	13	12	7	1	150	0	11	3	46	0	60	602
07:15	0	0	443	18	2	463	0	12	5	1	0	18	0	35	131	8	0	174	0	15	10	47	0	72	727
07:30	0	2	415	19	0	436	0	14	5	0	0	19	0	21	126	11	0	158	0	29	10	41	1	81	694
07:45	0	2	312	50	0	364	0	7	18	0	0	25	0	29	126	15	0	170	0	18	11	29	0	58	617
Total Volume	0	4	1518	109	2	1633	0	49	34	1	0	84	0	98	512	41	1	652	0	73	34	163	1	271	2640
% App. Total	0	0.2	93	6.7	0.1		0	58.3	40.5	1.2	0		0	15	78.5	6.3	0.2		0	26.9	12.5	60.1	0.4		
PHF	.000	.500	.857	.545	.250	.882	.000	.766	.472	.250	.000	.840	.000	.700	.977	.683	.250	.937	.000	.629	.773	.867	.250	.836	.908

Peak Hour Analysis From 06:00 to 09:15 - Peak 1 of 1
 Peak Hour for Entire Intersection Begins at 07:00



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File Name : 17 - TH 61 & 4th St
 Site Code : 17
 Start Date : 11/7/2012
 Page No : 4

Start Time	TH-61 Southbound						4th St Westbound					TH-61 Northbound						4th St Eastbound						Int. Total	
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds		App. Total
16:30	0	1	170	23	2	196	0	27	25	1	0	53	0	34	375	16	8	433	0	31	30	38	0	99	781
16:45	0	4	203	21	0	228	0	14	14	1	0	29	0	39	357	19	3	418	0	37	25	47	0	109	784
17:00	0	5	179	21	0	205	0	17	21	3	0	41	0	45	345	21	0	411	0	42	24	29	1	96	753
17:15	0	1	190	19	0	210	0	21	14	2	0	37	0	39	349	31	0	419	0	37	23	29	0	89	755
Total Volume	0	11	742	84	2	839	0	79	74	7	0	160	0	157	1426	87	11	1681	0	147	102	143	1	393	3073
% App. Total	0	1.3	88.4	10	0.2		0	49.4	46.2	4.4	0		0	9.3	84.8	5.2	0.7		0	37.4	26	36.4	0.3		
PHF	.000	.550	.914	.913	.250	.920	.000	.731	.740	.583	.000	.755	.000	.872	.951	.702	.344	.971	.000	.875	.850	.761	.250	.901	.980

Peak Hour Analysis From 14:30 to 18:15 - Peak 1 of 1
 Peak Hour for Entire Intersection Begins at 16:30

